

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 2, 8 and 17 without prejudice or disclaimer and AMEND claims 1, 7 and 15 in accordance with the following:

1. (currently amended) A magnetron for microwave ovens, comprising:
an anode cylinder;
a plurality of plate-shaped vanes radially arranged along an inside surface of the anode cylinder;

one or more strap rings to electrically connect the plurality of the vanes to each other;
and

an antenna connected to one of the plurality of vanes to radiate microwaves generated from the vanes;

wherein each of the vanes is plated with a brazing material, having a plating depth of about 2.25 μm to 8 μm , to be brazed to one or more of the anode cylinder, of the one or more strap rings and of the antenna, and the brazing material is plated on only joint portions of each of the vanes to which the anode cylinder, the one or more strap rings and the antenna are brazed.

2. (cancelled)

3. (cancelled)

4. (original) The magnetron as set forth in claim 1, wherein the brazing material contains silver of $72\pm 2\%$ in a weight ratio of the brazing material with copper providing a remaining percentage thereof.

5. (original) The magnetron as set forth in claim 1, wherein the plating depth of the brazing material is about 4 μm to 6 μm .

6. (cancelled)

7. (currently amended) A magnetron for microwave ovens, comprising:
an anode cylinder;
a plurality of vanes arranged in a radial direction inside of the anode cylinder, each of the vanes being plated with a blazing material having a plating depth of about 2.25 μm to 8 μm ;
one or more rings to connect with the plurality of the vanes and to electrically connect the plurality of vanes to each other; and
an antenna connected to one of the plurality of vanes and radiating microwaves generated from the plurality of vanes, wherein each of the vanes is brazed to one or more of the anode cylinder, of the one or more rings and of the antenna,
wherein the brazing material is plated on only joint portions of each of the vanes to which the anode cylinder, the one or more rings and the antenna are brazed.
8. (cancelled)
9. (cancelled)
10. (original) The magnetron as set forth in claim 7, wherein the brazing material comprises a ratio of silver to copper of between about 2.3 to 2.9 by weight.
11. (original) The magnetron as set forth in claim 7, wherein the brazing material comprises about 70% to 74% silver by weight.
12. (original) The magnetron as set forth in claim 7, wherein the plating depth of the brazing material is about 4 μm to 6 μm .
13. (original) The magnetron as set forth in claim 7, wherein each of the vanes is formed in rectangular plate shapes and comprises:
a first pair of ring notches formed in a top of each of the vanes to fasten a first pair of the rings to each of the vanes;
a second pair of ring notches formed in a bottom of each of the vanes to fasten a second pair of the rings to each of the vanes; and
an antenna notch formed in one of the vanes to fasten the antenna to the one vane.

14. (cancelled)

15. (currently amended) A method of forming a magnetron for microwave ovens including an anode cylinder, a plurality of plate-shaped vanes radially arranged along an inside surface of the anode cylinder, one or more rings to electrically connect the plurality of the vanes to each other, and an antenna mounted on one of the plurality of vanes to radiate microwaves generated from the vanes, comprising;

brazing one or more of the anode cylinder, of the one or more rings and of the antenna with a brazing material having a predetermined plating depth of about 2.25 μm to 8 μm , the brazing material being plated on only joint portions of each of the vanes to which the anode cylinder, the one or more rings and the antenna are brazed.

16. (previously presented) A method of forming a magnetron for microwave ovens, comprising:

forming a plurality of vanes along with brazing material having a plating depth of about 2.25 μm to 8 μm ;

providing one or more rings, an anode cylinder and an antenna; and

forming the magnetron by brazing the plurality of vanes inside of the anode cylinder to the one or more rings and one of the vanes to the antenna,

wherein the forming of the plurality of vanes comprises plating only joint portions of each of the vanes to which the anode cylinder, the one or more rings and the antenna are brazed.

17. (cancelled)

18. (cancelled)